

AMENDMENTS TO THE CLAIMS

The listing of claims below replace all prior versions, and listings, of claims:

1 1. (Previously Presented) A shield assembly for a connector that is connected
2 to a port of a chassis, a cable extending from the connector, the shield assembly
3 comprising:
4 an electrically conductive cover defining a chamber to enclose the
5 connector;
6 an attachment mechanism adapted to attach the cover to the chassis;
7 an electrically conductive gasket electrically contacted to the cover and
8 adapted to be placed between the cover and chassis; and
9 a cable engagement body having an opening with a width less than a width
10 of the chamber, the opening adapted to surround an outer surface of a portion of the
11 cable.

1 2. (Cancelled)

1 3. (Original) The shield assembly of claim 1, wherein the cable engagement
2 body comprises a neck portion extending from the cover.

1 4. (Original) The shield assembly of claim 1, wherein the cable engagement
2 body is integrally formed with the cover.

1 5. (Original) The shield assembly of claim 4, wherein the cable engagement
2 body has an outer width that is less than an outer width of the cover.

1 6. (Original) The shield assembly of claim 1, wherein the cable engagement
2 body comprises an inner surface defining the opening, and wherein the width of the
3 opening is substantially the same as a width of the cable to enable the inner surface of the
4 cable engagement body to contact an outer surface of the cable.

1 7. (Original) The shield assembly of claim 6, wherein the cable engagement
2 body is formed at least in part of an electrically conductive material to enable the cable
3 engagement body to be capacitively coupled to a shield of the cable.

1 8. (Previously Presented) A shield assembly for a connector that is connected
2 to a port of a chassis, a cable extending from the connector, the shield assembly
3 comprising:

4 an electrically conductive cover defining a chamber to enclose the
5 connector;

6 an attachment mechanism adapted to attach the cover to the chassis; and
7 a cable engagement body having an opening with a width less than a width
8 of the chamber, the opening adapted to surround an outer surface of a portion of the
9 cable,

10 wherein the cable engagement body comprises an inner surface defining
11 the opening, and wherein the width of the opening is substantially the same as a width of
12 the cable to enable the inner surface of the cable engagement body to contact an outer
13 surface of the cable,

14 wherein the cable engagement body comprises an electrically conductive
15 element adapted to pierce through an outer jacket of the cable to enable electrical
16 connection between the cable engagement body and a shield of the cable.

1 9. (Original) The shield assembly of claim 1, wherein the opening has a
2 predetermined length, the opening adapted to surround the outer surface of the portion of
3 the cable along the predetermined length.

1 10. (Original) The shield assembly of claim 1, wherein the opening has a
2 cross-sectional shape selected from the group consisting of generally circular, oval,
3 rectangular, and square.

1 11. (Original) The shield assembly of claim 1, wherein the opening has a
2 cross-sectional shape that forms a closed polygon.

1 12. (Currently Amended) A connector assembly for mating with a port in a
2 chassis, comprising:

3 a connector having a housing formed of an electrically conductive
4 material, the connector adapted to mate with the port;

5 a cable extending from the connector, the cable having a shield, wherein
6 the connector housing is electrically connected to the shield of the cable; and

7 a shroud adapted to enclose the connector housing, the shroud having an
8 electrically conductive first end to electrically contact the chassis and a cable engagement
9 body having an inner opening to receive the cable, the cable engagement body having an
10 inner surface in contact with an outer surface of the cable, the cable engagement body
11 further having an element to electrically contact [[a]] the shield of the cable.

1 13. (Original) The connector assembly of claim 12, wherein cable engagement
2 body comprises a neck portion having an outer width that is less than an outer width of
3 another part of the shroud.

1 14. (Currently Amended) A connector assembly for mating with a port in a
2 chassis, comprising:

3 a connector having a housing formed of an electrically conductive
4 material, the connector adapted to mate with the port;

5 a cable extending from the connector, the cable having a shield, wherein
6 the connector housing is electrically connected to the shield of the cable; and

7 a shroud adapted to enclose the connector housing, the shroud having an
8 electrically conductive first end to electrically contact the chassis and a cable engagement
9 body having an inner opening to receive the cable, the cable engagement body having an
10 inner surface in contact with an outer surface of the cable,

11 wherein the cable comprises a shield and an outer insulating layer, and
12 wherein the inner surface of the cable engagement body is capacitively connected to the
13 cable shield through at least the outer insulating layer,

14 wherein the shroud is formed of an electrically conductive material, and
15 wherein the shroud is adapted to cooperate with the chassis and the cable shield to
16 prevent electromagnetic leakage.

1 15. (Original) The connector assembly of claim 14, wherein a capacitive
2 impedance is provided between the cable engagement body and the cable shield in
3 response to transmission of a signal at a predetermined frequency in the cable.

1 16. (Original) The connector assembly of claim 12, wherein the shroud defines
2 a chamber in which the connector is located, the width of the inner opening being less
3 than a width of the chamber.

1 17. (Original) The connector assembly of claim 12, wherein the cable
2 engagement body has a predetermined length, the cable engagement body surrounding a
3 portion of the cable along the predetermined length.

1 18. (Original) The connector assembly of claim 12, further comprising an
2 attachment mechanism adapted to attach the shroud to the chassis.

1 19. (Original) The connector assembly of claim 18, further comprising an
2 electromagnetic interference gasket in contact with a surface of the shroud to enhance the
3 electrical contact between the shroud and the chassis.

1 20. (Currently Amended) The connector assembly of claim 12, wherein the
2 cable has an outer insulating jacket ~~and a shield~~, and the cable engagement body has at
3 least one piercing element protruding from the inner surface of the cable engagement
4 body, the piercing element adapted to penetrate the outer jacket of the cable to electrically
5 contact the cable shield.

1 21. (Original) The connector assembly of claim 12, wherein the connector
2 comprises one or more contacts contained in the connector housing.

1 22. (Cancelled)

1 23. (Cancelled)

1 24. (Currently Amended) A method of reducing electromagnetic interference,
2 comprising:
3 providing a connector having a housing;
4 electrically contacting the connector housing to a shield of a cable;
5 enclosing the connector within an electrically conductive shroud; and
6 contacting an inner surface of a portion of the shroud to an outer surface of
7 the cable extending from the connector; and
8 electrically connecting the portion of the shroud to the cable shield,
9 wherein the shroud cooperates with the cable shield to prevent
10 electromagnetic leakage.

1 25. - 26. (Cancelled)

1 27. (Currently Amended) The method of claim 26 24, wherein electrically
2 connecting the portion of the shroud to the cable shield comprises penetrating, with a
3 piercing element, an outer jacket of the cable, the piercing element being electrically
4 conductive to electrically connect the shroud portion and the cable shield.

1 28. (Original) The method of claim 26 24, further comprising removing at
2 least a portion of an outer jacket of the cable to enable the shroud portion to contact the
3 cable shield.

1 29. (Previously Presented) A system comprising:
2 a chassis having a structure defining a port;
3 a connector adapted to mate with the port;
4 a cable extending from the connector, the cable having a shield, the
5 connector having a housing electrically connected to the shield; and
6 an electrically conductive shroud enclosing the connector, the shroud
7 electrically connected to the shield of the cable.

1 30. (Original) The system of claim 29, wherein the shroud has a portion
2 defining a bore surrounding an outer surface of the cable.

1 31. (Cancelled)

1 32. (Currently Amended) The system of claim 31 30, wherein the shroud
2 portion comprises a neck portion.

1 33. (Previously Presented) The shield assembly of claim 1, wherein the cover
2 has an outwardly extending flange, the gasket adapted to be positioned between the flange
3 and the chassis.

1 34. (Previously Presented) The shield assembly of claim 1, wherein the cable
2 engagement body has an electrically conductive element adapted to pierce through an

3 outer insulating jacket of the cable to enable electrical connection between the cable
4 engagement body and a shield of the cable.

1 35. (Previously Presented) The connector assembly of claim 12, wherein the
2 element to electrically contact the shield of the cable comprises a piercing element.

1 36. (Previously Presented) The connector assembly of claim 12, wherein the
2 element to electrically contact the shield of the cable comprises plural piercing elements.

1 37. (Previously Presented) The connector assembly of claim 12, wherein the
2 element to electrically contact the shield of the cable comprises an electrically conductive
3 inner surface of the cable engagement body.

1 38. (Previously Presented) The method of claim 24, further comprising
2 attaching the shroud to a chassis.

1 39. (Previously Presented) The method of claim 38, further comprising
2 positioning an electrically conductive gasket between the shroud and the chassis.

1 40. (Previously Presented) The method of claim 39, wherein the shroud has an
2 outwardly extending flange, wherein attaching the shroud to the chassis comprises
3 attaching the flange to the chassis.

1 41. (Previously Presented) The system of claim 29, further comprising an
2 electrically conductive gasket between the shroud and the chassis.

1 42. (New) The shield assembly of claim 1, wherein the cover defines the
2 chamber having a space to enclose the connector without contacting a housing of the
3 connector.

1 43. (New) The shield assembly of claim 1, wherein the cover defines the
2 chamber to enclose the connector that has an electrically conductive housing.

1 44. (New) The shield assembly of claim 7, wherein the electrically conductive
2 cover is adapted to cooperate with the chassis and cable shield to prevent electromagnetic
3 leakage.

1 45. (New) The shield assembly of claim 34, wherein the electrically
2 conductive cover is adapted to cooperate with the chassis and cable shield to prevent
3 electromagnetic leakage.

1 46. (New) The connector assembly of claim 12, wherein the shroud is adapted
2 to cooperate with the chassis and cable shield to prevent electromagnetic leakage.

1 47. (New) The system of claim 29, wherein the shroud cooperates with the
2 chassis and cable shield to prevent electromagnetic leakage.